

PROGRAMMING RESOURCES

This free sample gives you a feel for what is included in our premium programming resources.

This download contains:

- Three sample workbooks from our **Python** and **C#** Programming T.I.M.E series:
 - a. Objective 01 Learn how to write structured programs workbook
 - b. Objective 02 Learn how to use selection workbook
 - c. Objective 03 Learn how to use number data types workbook
- Answers to all the comprehension questions from workbooks 1 – 3.
- Solutions to the sample Python and C# problems:
 - a. 27 solutions.
- Programming progress tracker
- About Craig'n'Dave TIME programming resources PDF

Included in our premium resources

The full version of these resources contains all 10 objectives and over 118 problems. It is also packed full of additional challenges to stretch the most which we will continue to add to.



How our programming resources work

For full details of how to get the best out of our programming with T.I.M.E. resources please read the enclosed PDF or check out the following webpage:



<https://craigndave.org/programming-with-time/>



Additional resources

Don't forget a premium subscription comes with full access to **ALL UNITS / TOPICS** as well as all our additional resources, these include:

- Programming resources (Python, C#, T.I.M.E, Functional programming, Defold games development)
- Delivery guides/calendars
- Teacher marking checklist
- Key terminology databases
- End of topic tests
- AS recap lessons to use in year 13 before embarking on new material
- Student revision checklists
- "Those little extras" pack
- PDF copy of our "Essential algorithms and data structures" book from Amazon
- Cheat sheets
- Text-based adventure game (Telium)

Network and the internet

Understand physical star topology and logical bus network topology
Differentiate between them and explain their operation

2. Using the items shown here, construct a diagram that shows your understanding of a physical star topology.

Internal computer architecture

Minimum expectations and learning outcomes of a computer system

Each other: • processor • main memory • address bus • data bus • control bus • I/O controllers

ptions. Use a line connector shape to join them together.
ue = execute

ore than one colour?

- Stores the address of the next instruction to be fetched
- Stores the address of the instruction or data to be fetched
- Stores data read from or being written to the RAM
- Stores the instruction currently being executed

Week	Lessons
1	SLP1-4.111
2	SLP1-4.112
3	SLP1-4.113
4	SLP1-4.114
5	SLP1-4.115
6	SLP1-4.116
7	SLP1-4.117
8	SLP1-4.118
9	SLP1-4.119
10	SLP1-4.120
11	SLP1-4.121
12	SLP1-4.122
13	SLP1-4.123
14	SLP1-4.124
15	SLP1-4.125
16	SLP1-4.126
17	SLP1-4.127
18	SLP1-4.128
19	SLP1-4.129
20	SLP1-4.130
21	SLP1-4.131
22	SLP1-4.132
23	SLP1-4.133
24	SLP1-4.134
25	SLP1-4.135
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27	SLP1-4.137
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29	SLP1-4.139
30	SLP1-4.140
31	SLP1-4.141
32	SLP1-4.142

Topic	SLP1-4.111	SLP1-4.112	SLP1-4.113	SLP1-4.114	SLP1-4.115	SLP1-4.116	SLP1-4.117	SLP1-4.118	SLP1-4.119	SLP1-4.120	SLP1-4.121	SLP1-4.122	SLP1-4.123	SLP1-4.124	SLP1-4.125	SLP1-4.126	SLP1-4.127	SLP1-4.128	SLP1-4.129	SLP1-4.130	SLP1-4.131	SLP1-4.132	SLP1-4.133	SLP1-4.134	SLP1-4.135	SLP1-4.136	SLP1-4.137	SLP1-4.138	SLP1-4.139	SLP1-4.140	SLP1-4.141	SLP1-4.142
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Minimum expectations and learning outcomes

- Terms 346-349 from A Level Key Terminology should be included and underlined.
- Provide an example of a simple program you have written in a functional programming language.
- Show an understanding of what a higher-order function is and show your understanding of the following higher-order functions: map, filter and reduce or fold.
- Show your understanding of the following list processing operations by providing annotated examples of some simple functional programs: return head of list, return tail of list, rest for empty list, return length of list, construct an empty list, prepended item to a list, append an item to a list.
- Answer the exam questions.

Feedback

Feedback	Depth	Presentation	Understanding
All	Analytical	Excellent	Excellent
Most	Explained	Good	Good
Some	Described	Fair	Fair
Few	Identified	Poor	Poor

Comment and action required

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Our pedagogy

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We have additional videos which you might find useful which explain the Flipped Classroom method of teaching on our YouTube channel:



 youtube.com/watch?v=ErJIJ5xhW-M&list=PLCiOXwirraUBEEFcJfSQgE2P-pcor9b9c

More reasons to teach with Craig 'n' Dave

Find out more about why we think our resources are the best available for delivering GCSE and A Level Computer Science here:

 craigndave.org/why-teach-with-craigndave-resources

If you have issues opening any of the files or experience any other problems, or you just want to ask us a question / provide feedback feel free to email us:



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